

**“Lasers for Life” – A Laserlab-Europe Foresight Workshop,  
2-4 June 2014, Royal Society, London, UK**



**Monday 2<sup>nd</sup> June 2014**

**12:30** Meeting open for registration

**13:30** Welcoming remarks by Claes-Göran Wahlström (Laserlab-Europe) and John Collier (STFC Central Laser Facility)

**Scientific Session 1: Medical Imaging, Diagnosis, and Therapy (Part 1)**

**14:00** Plenary: Serge Mordon (INSERM, Lille, France) *Laser applications in medicine*

**15:00** Sally Ibbotson (Dundee, UK) *Phototherapy, photodiagnosis*

**15:30** Adrian Podoleanu (Kent, UK) *Master/Slave optical coherence tomography*

**16:00** Coffee break

**16:30** Katarina Svanberg (Lund, Sweden) *Lasers for Oncology*

**17:00** Samantha Hills (Lynton Lasers, UK) *Lasers for cosmetic therapy*

**17:30** Vasilis Ntziachristos (IBMI, Munich, Germany) *In vivo targeted fluorescence*

**18:00** Carsten Philipp (Evangelical Elisabeth Clinic, Germany) *Laser surgery, endoscopy*

**18:30** Drinks reception, poster session, commercial exhibition, and networking opportunity

**19:30** Dinner

**22:00** Departure for hotels

**Tuesday 3<sup>rd</sup> June 2014**

**Scientific Session 2: Medical Imaging, Diagnosis, and Therapy (Part 2)**

**09:00** Plenary: Brett Bouma (Harvard, USA) *Lasers for medical imaging*

**10:00** Fiona Lyng (Dublin Inst of Technology, Ireland) *Laser spectroscopy for diagnosis*

**10:30** Coffee break

**11:00** Colin Hopper (UCL, UK) *PDT for head & neck cancer*

**11:30** Katalin Hideghety (Szeged, Hungary) *Future applications of laser driven ionizing radiation*

**Scientific Session 3: Complementary approaches forward look (Synchrotrons, FELs, and High Power Lasers)**

**12:00** Plenary: Henry Chapman (DESY, Germany) *FELs for structural biology*

**13:00** Lunch

**14:00** Paul Dumas (Soleil, France) *Synchrotrons & lasers in the IR*

**14:30** Elizabeth Duke (Diamond Light Source, UK) *Correlative X-ray & laser microscopy*

**15:00** Richard Abel (Imperial College, UK) *High power lasers for medical imaging*

15:30 Jörg Schreiber (MPI, Germany) *Laser-driven ion acceleration*

16:00 Coffee break

**Scientific Session 4: Future Applications of Laser Spectroscopy & Imaging for Biological and Medical Research (Part 1)**

16:30 Plenary: Ernst Stelzer (Buchmann Inst, Germany) *Advanced light microscopy*

17:30 Christian Eggeling (Oxford, UK) *STED microscopy*

18:00 Neil Hunt (Strathclyde, UK) *2DIR of proteins & peptides*

18:30 Drinks, poster session, commercial exhibition, and networking opportunity

19:30 Dinner

22:00 Departure for hotels

**Wednesday 4<sup>th</sup> June 2014**

**Scientific Session 5: Future Applications of Laser Spectroscopy & Imaging for Biological and Medical Research (Part 2)**

09:00 Susan Quinn (UCD, Ireland) *Ultrafast spectroscopy of nucleic acids*

09:30 Marisa Martin-Fernandez (STFC, UK) *Single Molecule techniques in cells & tissues*

10:00 Maria Garcia Parajo (ICFO, Spain) *Single Molecule Biophotonics*

10:30 Erwin Peterman (VU Amsterdam, NL) *Super-resolution & Optical Tweezers*

11:00 Coffee break

**Scientific Session 6: Horizon Scanning – Exploration of emerging areas**

11:30 Maria Farsari (IESL-FORTH, Greece) *2.5D and 3D printing of biomedical implants*

12:00 Aleksandr Ovsianikov (Vienna Uni. of Technology) *Laser-based tissue engineering*

12:30 Michael Hauser (University College London) *Optogenetics*

13:00 Ken Ledingham (Strathclyde, UK) *Opportunities for international collaboration in laser therapy*

13:30 Lunch

14:30 **Discussion forum: Presentations from policy leaders and open discussion with delegates**

15:30 Closing remarks

16:00 Workshop ends

